

PHONE AUDUBON 5588

INSTITUTIONAL
EQUIPMENT

LOUISIANA SCHOOL SUPPLY CO.
2755-7 ORLEANS AVENUE

HARRY R. LAYNE
SALES ENGINEER

NEW ORLEANS 19, LA.



NARRAGANSETT

Official
**BASKET BALL
BACKSTOPS**
CATALOG A-3

NARRAGANSETT GYMNASIUM EQUIPMENT CO.

5 SABIN STREET

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NARRAGANSETT BASKET BALL BACKSTOPS

THE GOAL

No. 1700-B Goal for FANBANK

Specially designed to eliminate the side braces, this goal is securely attached to the back or the FANBANK. The net is quickly attached to the patented net holders on the underside of the ring.

No. 1700-30F One Piece STEEL FANBANK No braces. (without Goal)

THE NARRAGANSETT. OFFICIAL ONE PIECE STEEL FANBANK conforms in every respect to the official backboard as adopted by the National Basketball Committee of the United States and Canada.

Formed from one piece of heavy steel, the 1½" wide flange, pressed back like automobile bodies has a rounded smooth edge. The surface is permanently flat and smooth and will not warp or bulge. The back is re-inforced with steel braces securely welded as a solid piece which assures absolute rigidity.

The FANBANK has a washable, non-glare white finish.

REPLACING with NARRAGANSETT FANBANK

Where backstop braces are already in place, these can be adapted to the new FANBANK. Specify the type of backstop to be replaced (refer to the various types shown in this catalog). Our engineers will furnish installation instructions with each FANBANK. Local mechanics can make the installation.

No. 1700-30G HERCULITE GLASS FANBANK
The Official Glass FANBANK, conforms to all the requirements of the Basketball Rules Committee.

No. 1700-4C Official Goal for Glass FANBANK.



NARRAGANSETT PLY-WOOD BACKSTOPS



No. 1703-B Goal

This Rigid Goal is electrically welded to a stout angle steel plate. As an additional and desirable feature, steel loops are welded to the underside of the ring, and through these the cord net is laced. There are no sharp edges to wear the cord.



**No. 1700-5 Basketball Backstop, Plywood, No braces
(without goal)**

THE face of this board consists of one continuous piece of selected plywood, free from joints or seams. It is securely mounted on a sturdily made hard wood back frame, and for further solidity and rigidity, and perfect banking results is stiffened by wide cleats.

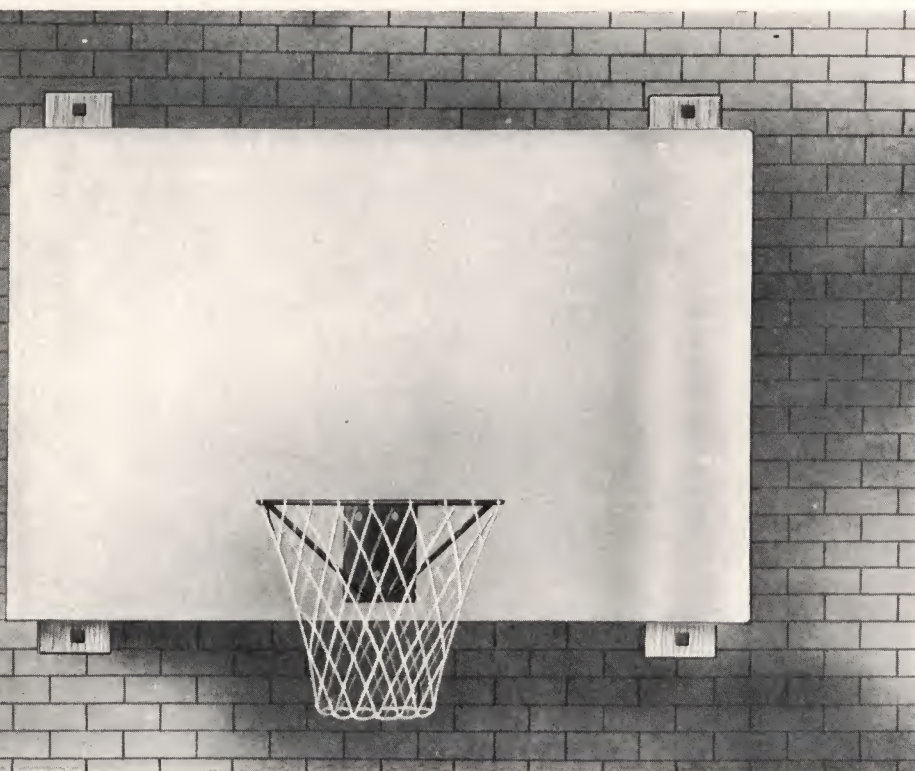
The Official Basketball Guide of the National Basketball Committee, 1941-42 states, "NOTE:—The larger rectangular board as formerly described in these rules is also legal. In all new construction and in replacements, the official board specified in Section 1 should be installed. Extensive investigation and observation indicate that the many advantages of the official board warrant rapid transition and ultimate standardization through approval of only such boards. Organizations are urged to install such boards as soon as it is feasible".

The following pages illustrate various types of Basketball Backstops with the rectangular bank. You have the choice of either the rectangular or the new NARRAGANSETT FANBANK.



No. 1700-31 Plain Backstop with Wall Boards (without goal)

NOT an official form of backstop, but one which can be used to advantage in many cases. This type is primarily designed for practise purposes only and it is greatly favored for that service as it is so economical of space. Moreover, some areas in which basketball is played have a length of less than 60', and in these instances it is advantageous to use No. 1700-31 for actual games. This type is also used in playrooms where smaller children are taking their first basketball training, and the board can easily be set at about one foot below the official height, to make shots less difficult.



No. 1700-31 Plain Backstop
No. 1700-30F STEEL FANBANK

No. 1700-17 Backstop Braced Two Feet No. 1700-17F FANBANK Braced Two Feet (without goal)

THE 2' extension braces make this a suitable backstop where greater extension from the wall would encroach too far on the standard length of court. Also used on practise courts laid out on the short room dimension where it is of no particular importance to maintain exactly the official court length.

This is not, of course, an official form of backstop, as it does not make possible the standard 3' dimensions from wall to court plus the official projection of the banking board 2' or 4' inside the court line. It is, however, a very practical type for practise, and for game use where the available area does not quite meet official requirements.

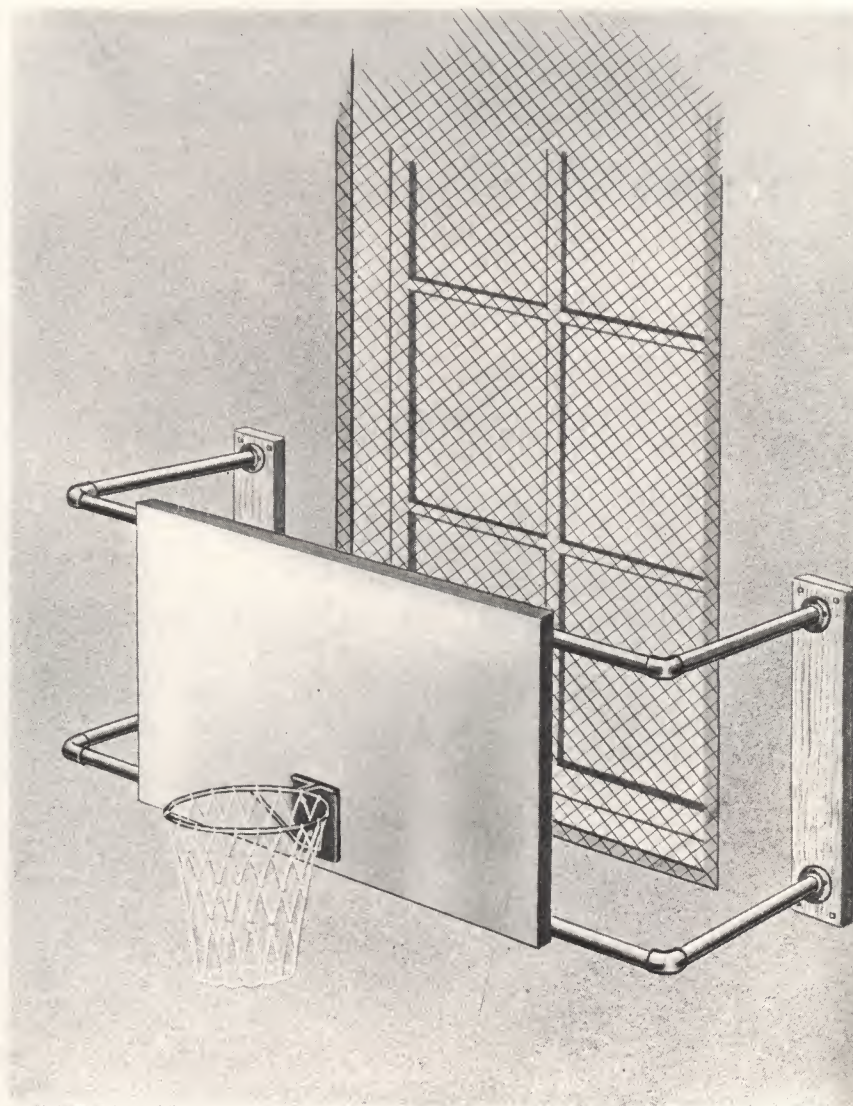


No. 1700-17 Backstop Braced Two Feet


No. 1700-24 Backstop Braced Two Feet
**No. 1700-24F FANBANK Braced out Two Feet
(without goal)**

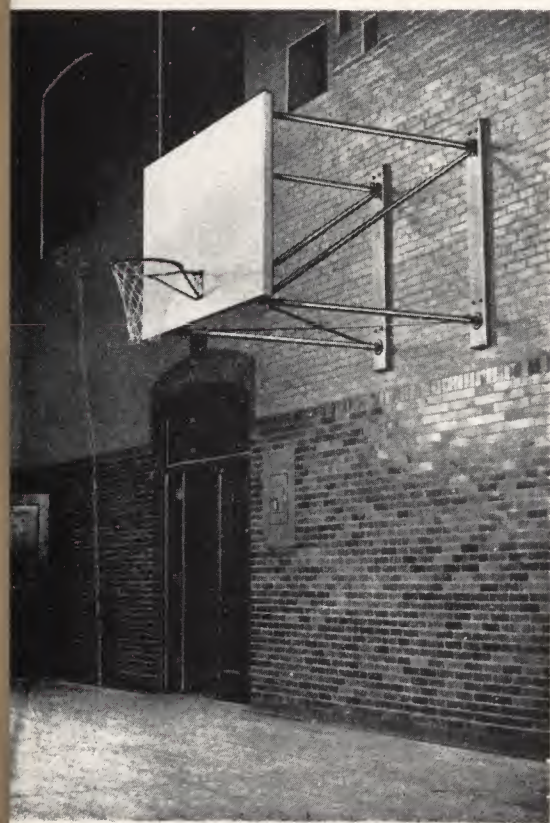
CONDITIONS are sometimes such as to necessitate the placement of one of the backstops (or both) directly in front of a window or similar opening. We have developed this excellent way of overcoming the difficulties resulting from such cases. In fact, when you depend on Narragansett equipment, you will find that there are ways to make sure of locating your court to advantage, even though the backstop location presents seemingly insurmountable problems.

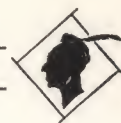
Generous extension from the window permits of easy access to screens and windows for opening, cleaning, and other care.


No. 1700-24 Backstop Braced Two Feet out
No. 1700-16 Backstop, Wall Braced (rectangular)
**No. 1700-16F FANBANK, Wall Braced
(without goal)**

HERE is a wall supported backstop which conforms to official rules and may be used without reserve for actual play. It is braced out 5' or 7' from the wall, allowing for 3' space outside the court plus 2' or 4' extension of the backstop into the playing area.

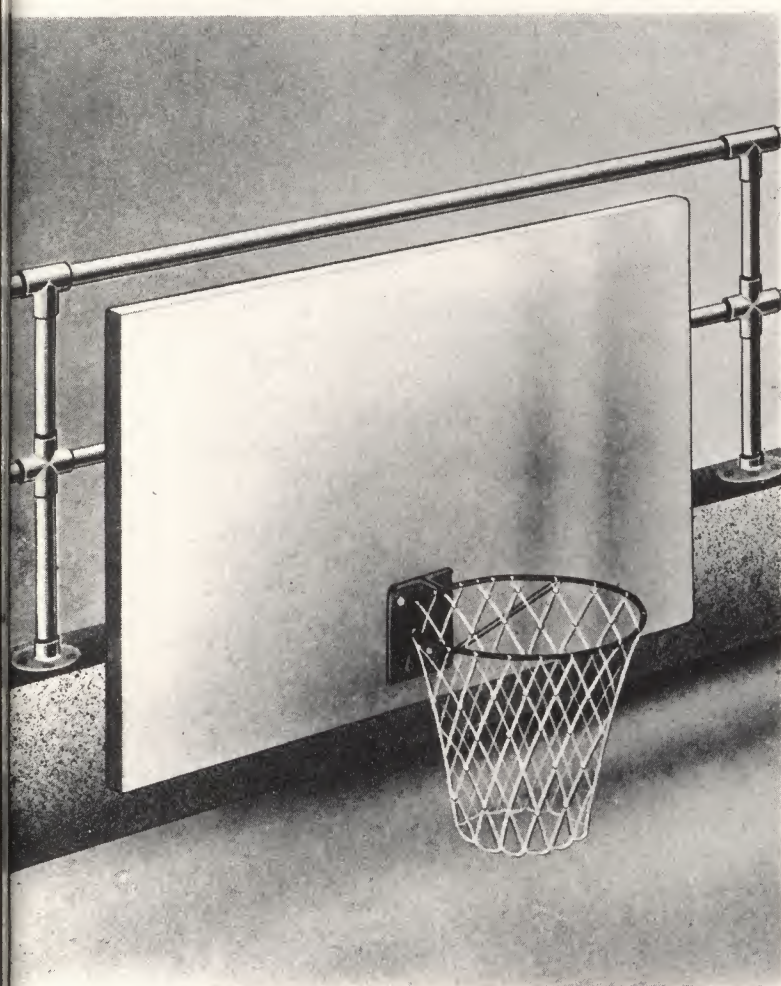
Where size of playing area permits, backstops of this type may be used braced out from the wall 7'. When that distance from the wall must exceed 7', it is recommended an overhead suspension type of backstop be used (similar to No. 1700-15 shown on page 7).

No. 1700-16 Backstop Braced Five Feet
No. 1700-16-7 Backstop Braced Seven Feet




**No. 1700-29F FANBANK attached to balcony rail
(without goal)**

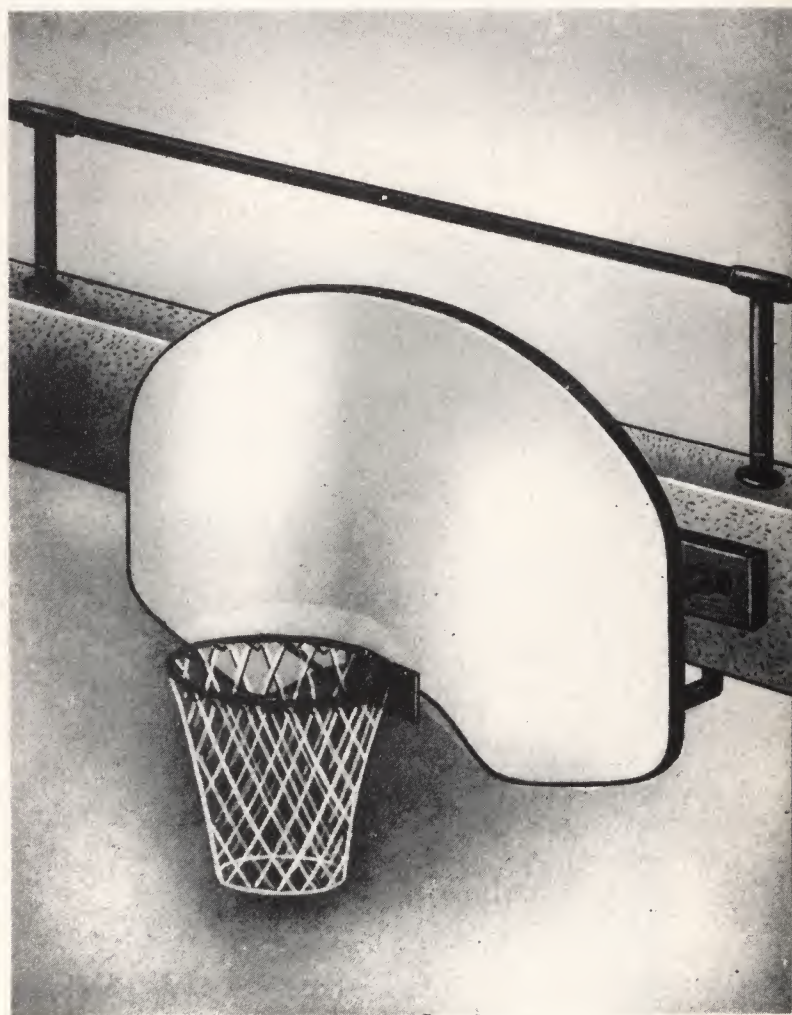
ALTHOUGH the attachment of a backstop flush against a balcony or running-track railing has its disadvantages, it is an economical method of installation, and is sometimes forced by building design. We advise limiting this type to practise courts, except where distance between balconies or wall and balcony is 60 feet or less. This type of backstop is permanently bolted in position.



**No. 1700-29 Backstop
Attached Flush Against Balcony Rail**

**No. 1700-28F the new
NARRAGANSETT FANBANK
Braced out from Balcony**

WHERE the backstop can be placed 2 feet out from the balcony the out-of-bounds end line comes directly below and in plane with the outer edge of the balcony. This leaves the players a fairly unobstructed throwing area around the basket, and is good construction. No. 1700-28 shows a method of installation where the basket, to conform to official height, must come near or below the level of the balcony floor.



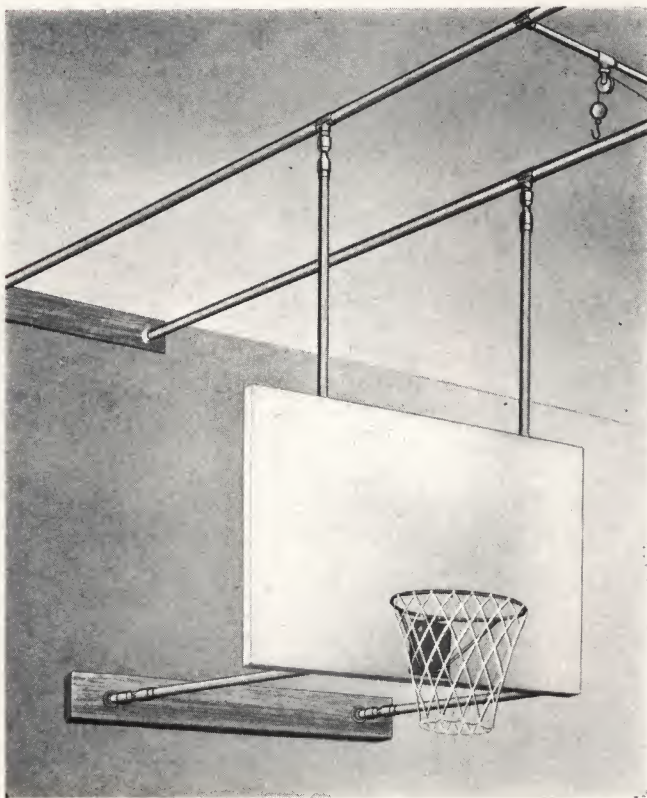
**No. 1700-28F FANBANK
Braced from balcony**



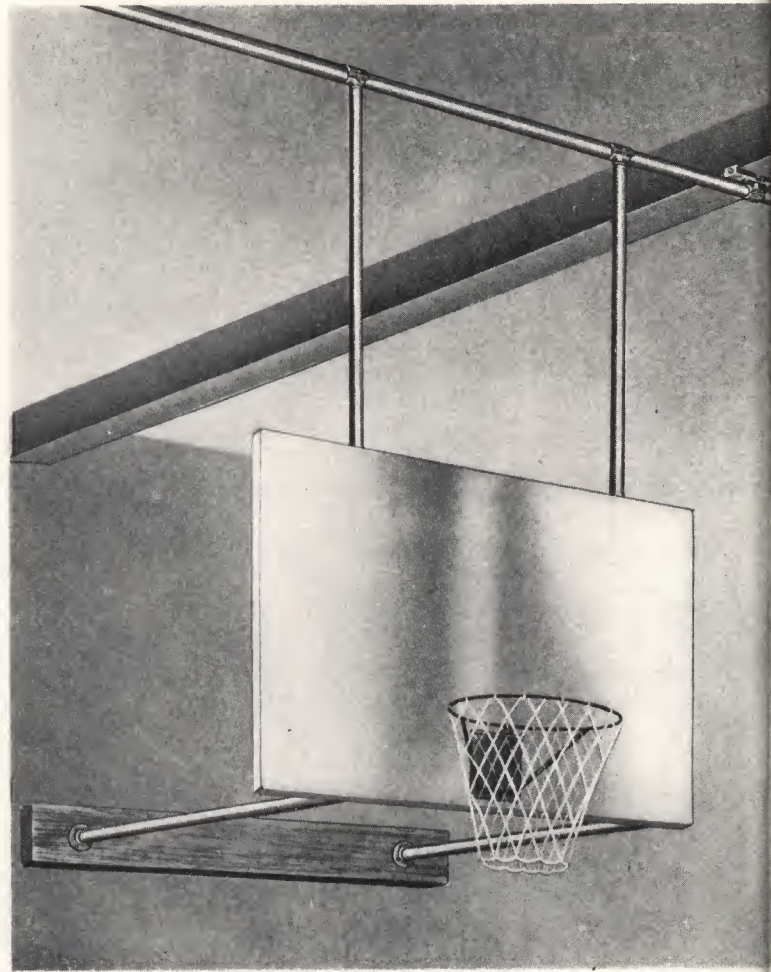
No. 1700-15 Backstop Suspended, Wall Braced
No. 1700-15F FANBANK Suspended, Wall Braced
 (without goal)

THIS is an ideal type for use where the backstop must extend far out from the wall, or where wall or gallery face is not of sufficient strength to support alone the ordinary backstop strain. Between 5 ft. and 7 ft., this suspended style should be used. It is firmly braced against the wall, but supported from above on 3" overhead pipe supports hung between the wall and the nearest girder, or from the girder itself. Concrete or fire-proofed girders should have fittings for this purpose installed during building construction to avoid costly installation work when the backstop is erected. (See page 12).

Owing to varying conditions as to height of girders and distances from walls, the standard price on this backstop does not include cost of overhead piping.



No. 1700-22 Backstop

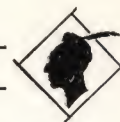


No. 1700-15

No. 1700-22 Backstop Suspended, Wall Braced, Swing-Up
No. 1700-22F FANBANK Suspended, Wall Braced,
 swing-up (without goal)

A popular type of backstop, suspended in the same manner as No. 1700-15, but having an added swing-up feature. When the backstop is not in use, the wall braces are quickly detached, a hoist is connected to the bottom of the board, and the entire device is lifted close to the ceiling. All swing-up backstops are furnished with a winch.

Owing to varying conditions as to height of girders and distances from walls, the standard price on this backstop does not cover the cost of overhead piping.



JACKKNIFE TYPE

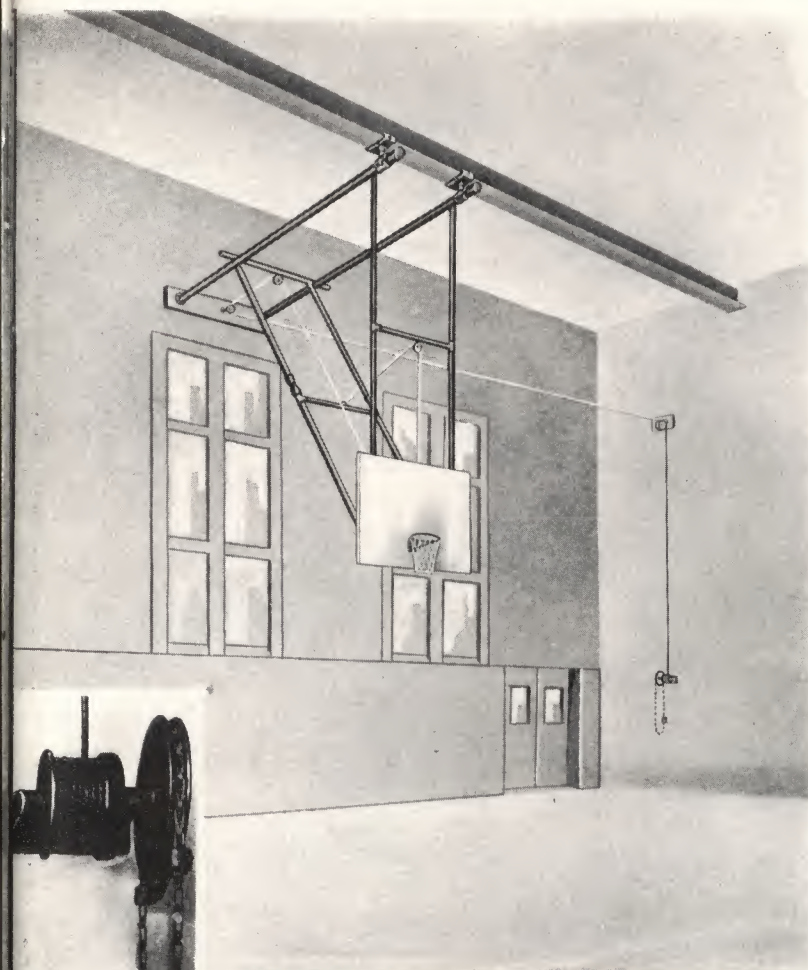
No. 1700-13 Backstop "Jackknife" Swing-up

No. 1700-13F FANBANK "Jackknife" Swing-up
(without goal)

THE backward swing-up backstop offers advantages which justify its popularity. When structural conditions permit, it may be placed to serve the long major court, or the transverse minor courts. And with its backward swing-up action, it avoids conflict with other gymnasium activities. By the nature of its design, the action of the hoisting cable automatically "breaks" the brace joints and "jackknife" folds the braces as the board is raised by its friction geared winch. Thus, when raised, it presents a compact, self-contained arrangement. By virtue of accuracy in manufacture, its operation is smooth and positive.

Note: Consult page 12 to see whether your overhead type of construction requires the installation of inserts or pipe hanger fixtures during building construction.

Because of varying structural conditions, prices, as listed cannot include overhead pipe bridging and fixtures, or other special provisions. Estimates including same will be furnished on receipt of information detailing conditions to be met.

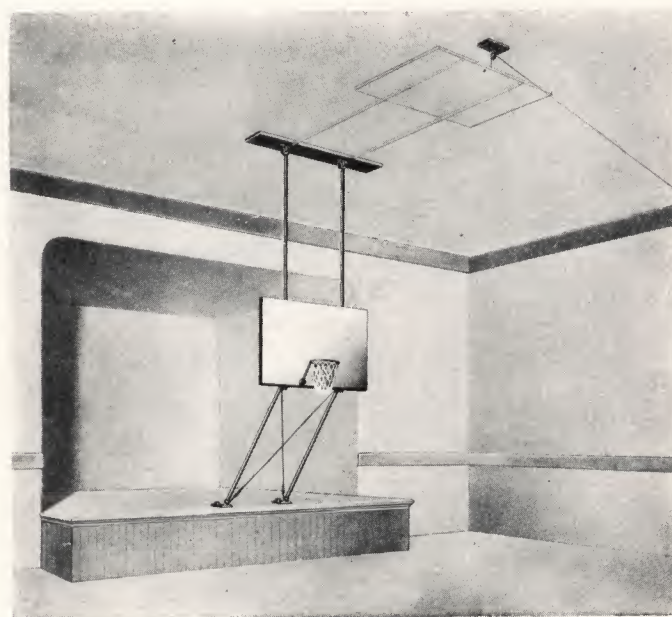


No. 1700-13 JACKKNIFE

BACKSTOP WINCH

The Narragansett friction geared Winch is sturdily built, and "fool-proof". It is attached to the wall above headheight, operated from the floor by means of a chain which is locked in place when not in use.

BACKSTOP WINCH



No. 1700-14 Backstop, Suspended Stage Braced
No. 1700-14F FANBANK, Suspended Stage Braced
(without goal)

This is a simple backstop which is popular in auditoriums. The regulation banking board is attached to swinging pipe standards. The braces at the bottom are secured to flush floor plates. When not in use, the braces are detached and the backstop is swung up to the ceiling by means of a friction geared winch.



WALL SWING-UP BACKSTOPS

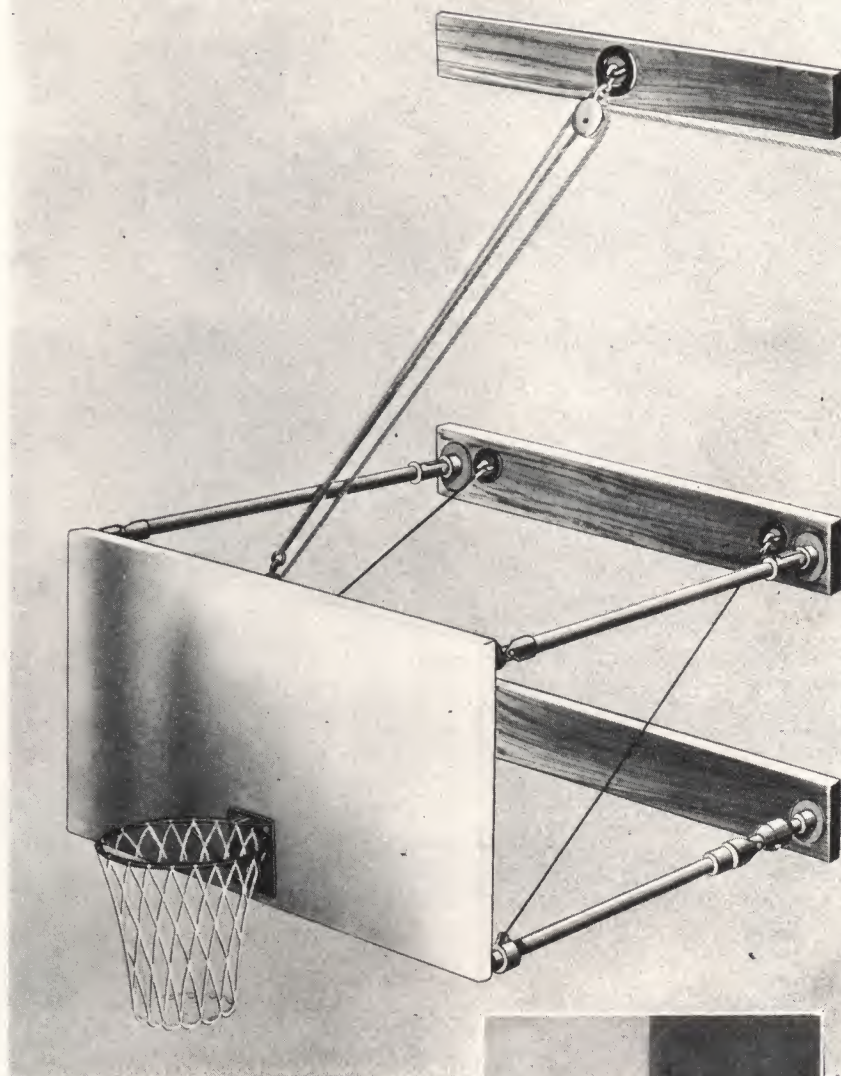


No. 1700-20 Backstop, Wall Swing-up

No. 1700-20F FANBANK Wall Swing-up
(without goal)

THIS type of backstop is braced from the wall but can be swung up as the illustration shows. In many cases, the wall braced type meets correct playing conditions, but projects into the room so that if it were stationary it would interfere with other activities. For these conditions, Narragansett provides the wall-braced swing-up type. Its usual location would be cross courts where the board projection would interfere with bleachers, or project to a point too close to the main court side line.

Another common instance would be the stage gymnasium where the backstop must be pulled out of the way for the general handling of scenery. In standard form, No. 1700-20 extends out from the wall 5 ft. or 7 ft.



FOLDED TO THE WALL

The smaller picture shows the backstop folded back to the wall. This can be done by means of a compounded rope hoist, or a steel cable operated on a friction geared winch.





PORTABLE FLOOR BRACED

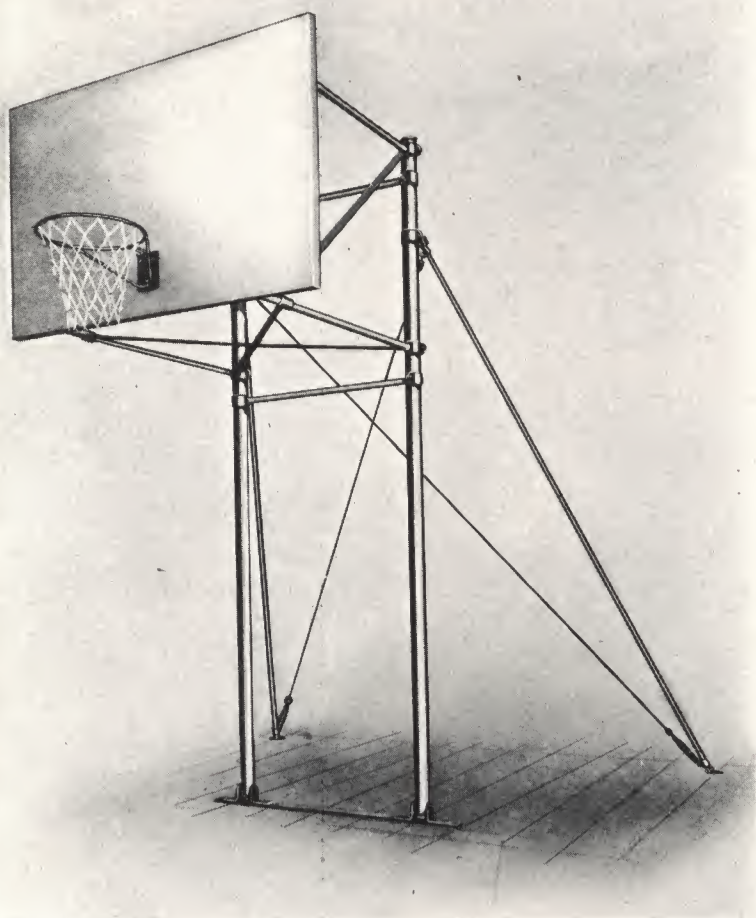
No. 1700-18 Backstop, Portable, Floor-braced.

No. 1700-18F FANBANK, Portable, Floor-braced.
(without goal)

AN excellent pipe-frame type of portable backstop, with heavy uprights for sturdiness. Regulation banking board is set 2' to 5' out from the uprights. Effectively floor braced. Regulation height and width.

These portable backstops are used in armories, auditoriums, and assembly halls where it is impossible to use the suspended or wall types.

Provision should be made in the planning stage of gymnasiums to avoid the necessity of using portable backstops. Refer to pipe hanger fixtures on page 12.



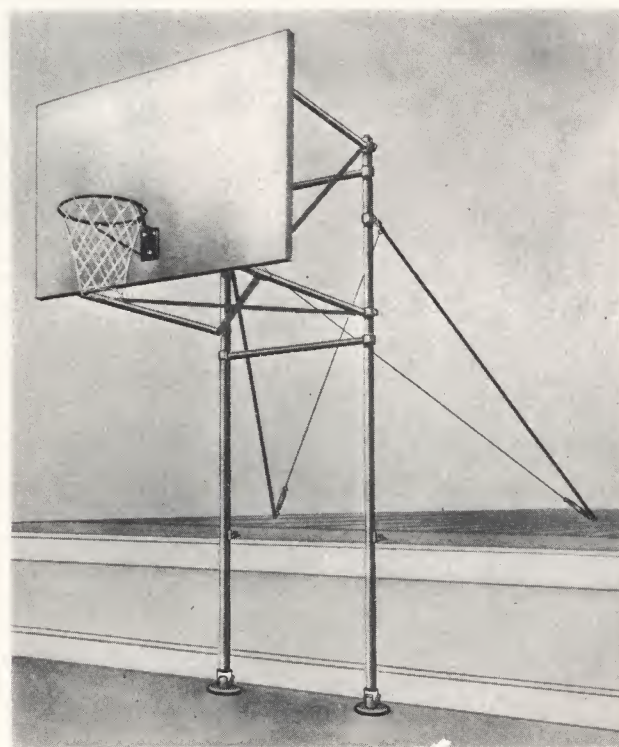
No. 1700-18 Backstop, Floor-braced

PORTABLE STAGE BRACED

No. 1700-21 Backstop, Portable, Stage-Braced.

No. 1700-21F FANBANK, Portable, Stage-Braced.
(without goal)

A portable backstop similar to No. 1700-18, but with a lighter pipe frame. It is particularly applicable to stage front use, being fastened to the floor, strapped to the stage front, and braced to the stage floor. Banking board is braced out 2 feet. This type of backstop is used when it is impracticable to use No. 1700-23, No. 1700-13, or No. 1700-14 (shown on page 7).



No. 1700-21 Backstop, Stage Braced



SUSPENDED SWING-UP

No. 1700-23 Backstop, Suspended, Swing-up

No. 1700-23F FANBANK, Swing-up (without goal)

ANOTHER popular type of suspended swing-up backstop, swinging **away** from the wall, and, therefore, frequently used where something in the nature of a gallery, balcony, etc., is in fixed position between the backstop and the wall, or where walls must be kept clear for handball and similar uses.

A steel cable operated by a friction geared winch raises the backstop.

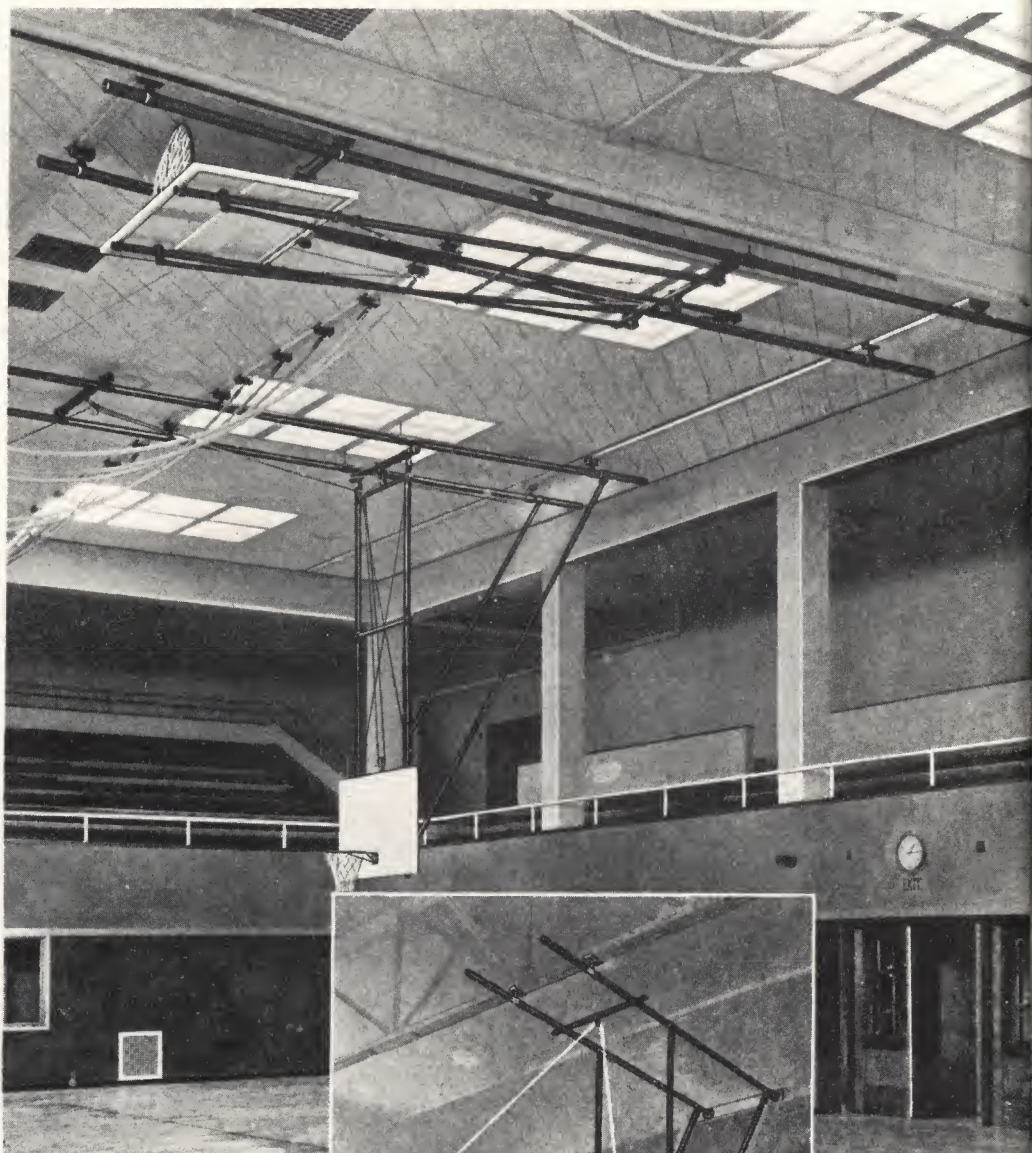
Braces and drop pipes are one piece, and are made as rigid as conditions permit.

Girder or ceiling vibration may be transmitted to the backstop so that the result is not as rigid as a wall braced type.

It is best, if possible, to anticipate the need of this type where concrete or fireproofed beams are going to be used, and install girder fittings during building construction. The result is worthwhile economy. Consider the possibility of using type 1700-13 and 1700-14 (Page 7).

INSTALLATION REQUIREMENTS

1. In using pipe bridging, as here illustrated, the top of the proscenium arch (or of any other opening applying), should be lower than the level of the pipe.
2. The wall above the stage opening must afford secure anchorage. This applies equally to all other walls to receive fastenings.
3. Secure anchorage must be available for the hoisting winch.
4. If the reach from the wall out to the adjacent truss exceeds 16', it is necessary to provide intermediate support for the bridge pipes.
5. Light fixtures should not be placed on trusses or girders.
6. Height to point of attachment should not exceed 22'. A pipe frame-work should be suspended below trusses or girders of excessive height to the proper height for backstop attachment.





NARRAGANSETT FOLDING PORTABLE BACKSTOP



IN auditoriums and armories where it is impracticable to use any of the attached backstops, the Narragansett Folding Portable Backstop solves the problem.

There are two types; one for the floor, braced out 4 to 7 feet and the stage model braced 4 to 5 feet. When ordering, state the distance from the floor to stage.

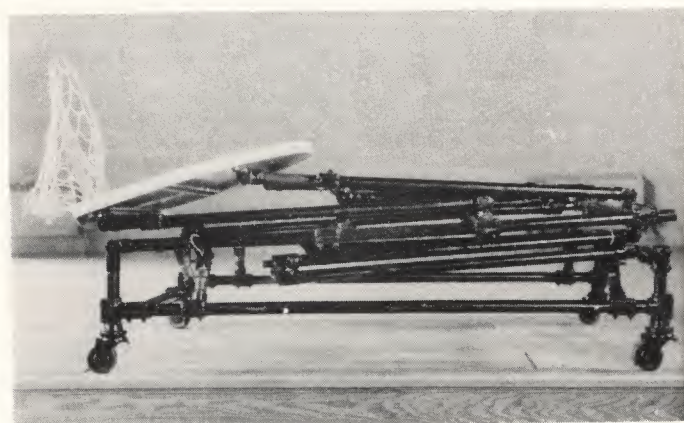
No. 1700-35F NARRAGANSETT FOLDING
PORTABLE BACKSTOP with FANBANK
Floor type 4' to 5' Extension.

No. 1700-36F, FOLDING PORTABLE BACKSTOP
Floor type 7'

No. 1700-37F, FOLDING PORTABLE BACKSTOP
Stage type 4' or 5' extension.

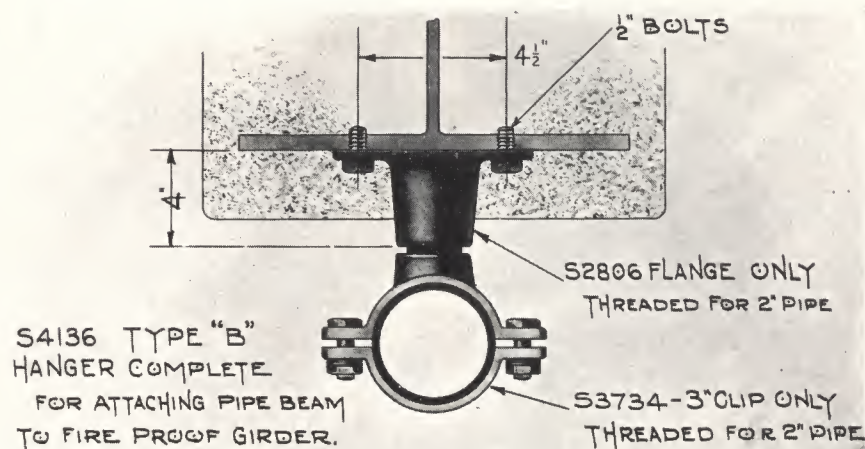
THE Narragansett FOLDING PORTABLE BACKSTOP is sturdily built and gives the same rigidity as a fixed backstop. It is rolled into position on rubber tired casters and locked into flush floor plates.

The Narragansett FANBANK is standard equipment. If the rectangular boards is preferred, it must be specified in your order.



FOLDING PORTABLE BACKSTOP

When not in use, the Narragansett FOLDING PORTABLE BACKSTOP is easily folded. Lock bolts are removed from floor plates and it is ready for storage.



Type B hanger, which fulfills a majority of requirements, is shown here in detail. Though only part of the hanger pipe may be required at first, it is economical to install a full quota of S-2806 flange inserts **during building construction**. For suspended ceilings, extend the 2" drop pipe nipple to a point 2" below finished ceiling.

PIPE HANGER FIXTURES

to be installed

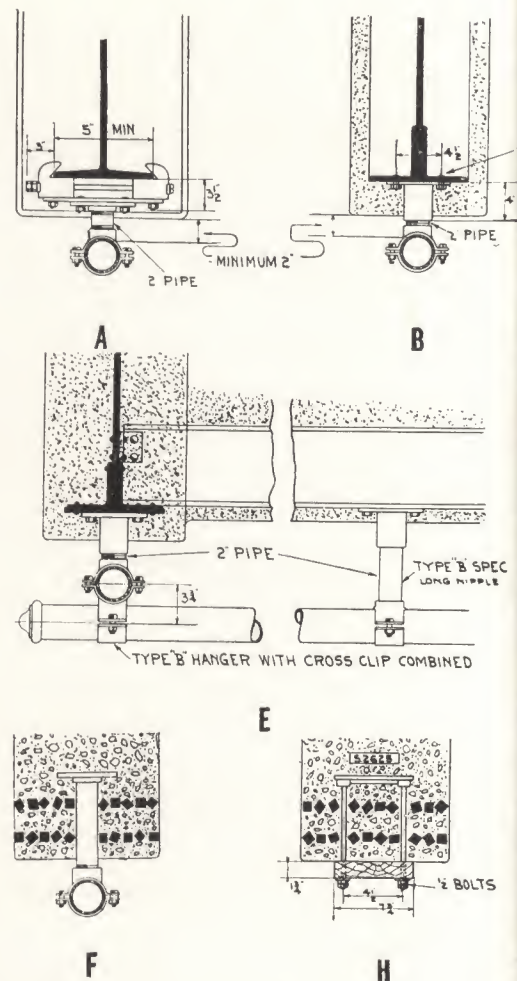
DURING BUILDING CONSTRUCTION

THE following does not apply to exposed overhead girder and truss construction, but it is important where there are to be reinforced concrete, fire-proof (or otherwise enclosed) girders, or suspended ceilings.

When preparing building plans and specifications, the architect should locate a standard 3" pipe beam under each girder, from wall to wall, and locate by specially designed inserts or clamps here illustrated. Fixtures should be spaced 8' to 10' apart, set true to the center line of the girder. Between the top of the pipe and the finished face of the girder (or suspended ceiling), a minimum 2" space should be left.

With suspended ceilings, hanger supports should be in transverse rows with the same arrangement, extent, and spacing as described. The long drop pipe nipples, Sketch E, are then extended as required to carry pipe beams below the ceiling. All hanger pipe should be horizontal, regardless of pitch or slope of other overhead members.

Before deciding to space girders more than 18' apart, it should be remembered that frequently some backstops and other equipment require **LENGTHWISE** hanger pipes at arbitrary points. These are easily clamped to the intersecting transverse pipe hangers (sketch E), but with girders more than 18' apart, it is almost certain that costly additional intermediate support will be required for safety.



Ideal Height to point of overhead attachment for suspended backstops and other gymnasium equipment is 20' to 22', and not less than 18'.

Lighting Fixtures should not be placed on girders or trusses.

Fastenings to be made to concrete, fire-proof, or false finished galleries should be arranged for in advance.

The foregoing provisions fulfill all **general** requirements for suspended backstops and other gymnasium equipment. Special conditions applying to individual backstops are referred to on later pages in connection with the various backstop pictures.

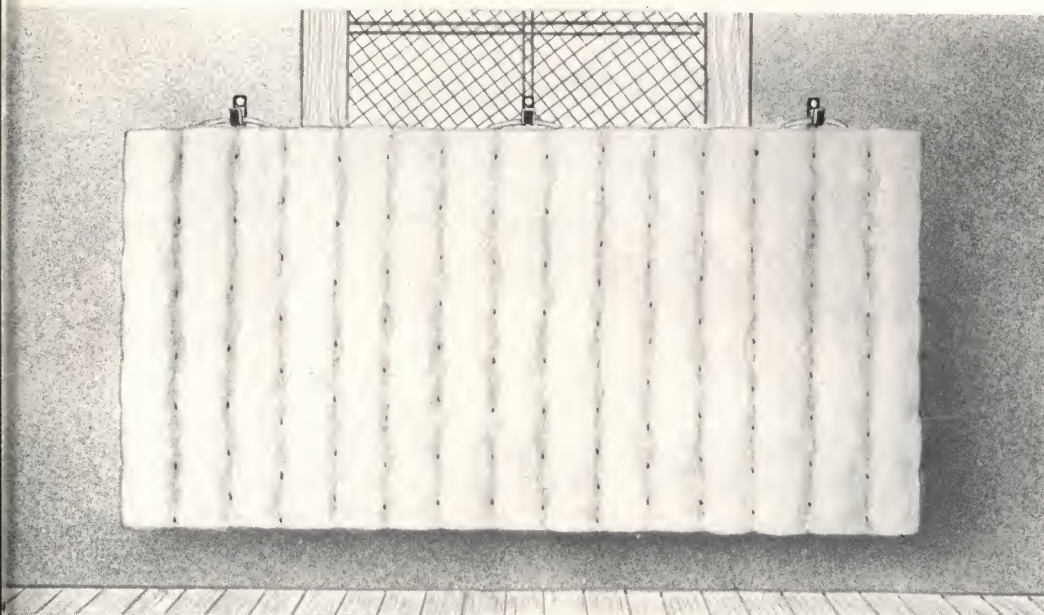
Narragansett Machine Company engineers will furnish hanger lay-out plans to architects and other responsible individuals on receipt of blueprints showing the gymnasium in plan and both sections.

When ordering attachment fixtures always state height to girder and the desired height to the **TOP** of the hanger pipe. State width and thickness of girder flange when ordering clamp-type attachment fixtures.



WALL PADS

No. 988. Wall pads are especially designed for use where obstructions on the wall, such as railings, radiators, etc. should be covered to protect players. In standard form these mats are equipped with regulation handles, but can be supplied with "D" rings for hanging if preferred; furnished in either one or two inch thickness and to any length and width desired.



NARRAGANSETT WALL TYPE BLEACHERS (swing around)

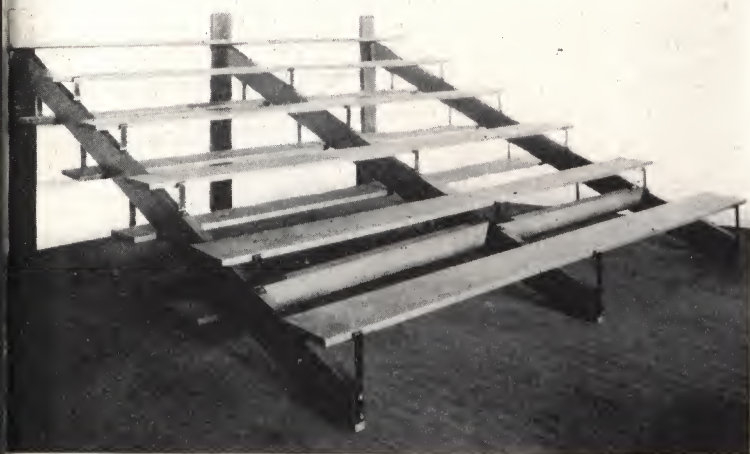
No. 994 Wall Type Bleachers

WHERE, at times, full floor space must be available, but attachment of bleacher fixtures permanently to the wall is permissible, here is the ideal installation of comparatively low-cost equipment.

The completely erected bleacher is similar to our "Close-Pack" (shown on Page 14) but assembly and "knock-down" are even quicker. The stringer pieces, firmly hinged to the wall, swing out for erection and back for storage in a few seconds' time. Seat-boards are quickly placed in position and removed.

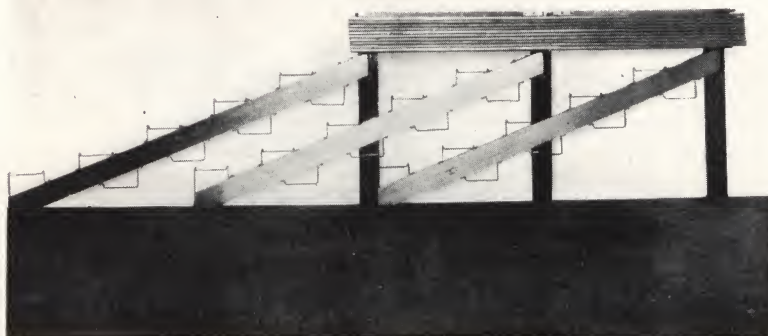
The step from an open floor to one supplied with comfortable, large and safe stands is amazingly quick, and requires surprisingly few men to handle.

The seat boards, when not in use, pack neatly and securely above the folded stringer pieces, as shown in the illustration.



THE highest grade materials and the best of craftsmanship are used. Note the sturdiness of the equipment throughout.

Like all Narragansett bleachers, the "Wall" Type combines safety, simplicity and minimum storage requirement with the Ability to show a Quick and Satisfactory Profit to the Owner of the Equipment.





NARRAGANSETT

CLOSE-PACK

PORTABLE BLEACHERS

No. 995 Close-Pack Portable Bleachers

THESE bleachers may be used either in Gymnasiums or outdoors; outdoors when an overflow requirement must be met at a "big game"; indoors where floor space does not allow for permanent bleachers, or when supplementary stands must be erected quickly and easily to care for surplus attendance at a game or exhibition.

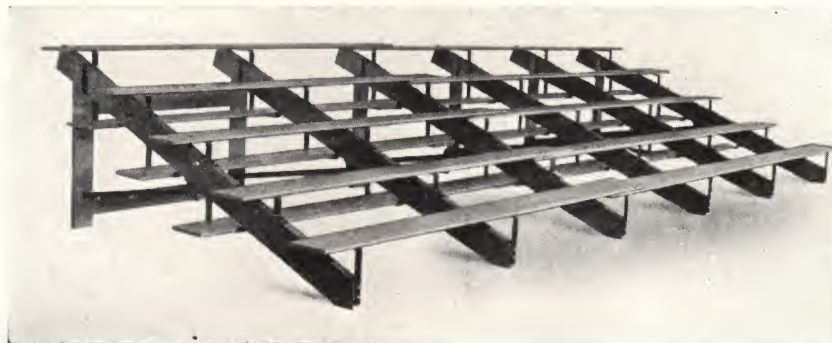
Of course, in almost every case, storage space is at a premium. Consider how ideal "Close-Pack" bleachers are in that respect. A 25 foot, 5 tier section, with seating capacity of approximately 80 persons, will pack into a space only 16 feet long, 20 inches wide and 43 inches high.

FOUR OUTSTANDING FEATURES OF "CLOSE-PACK" BLEACHERS

1. Sturdily built for **Safety**. This is a prime requisite when the public is entrusting life and limb to your grandstand equipment.
2. **Simplicity**. No loose nuts, bolts or screws. No small parts to be lost. No tools necessary for erection. Few parts, but all parts interchangeable and fitting perfectly for quick erection and quick "knock-down" after use.
3. Minimum space required for storage. All pieces pack flat. Storage space is but a few cubic inches per person seated.
4. Low first cost, low upkeep cost and low handling cost combine to make these bleachers a highly profitable investment. Frequently the first event they are used for will pay for them outright.

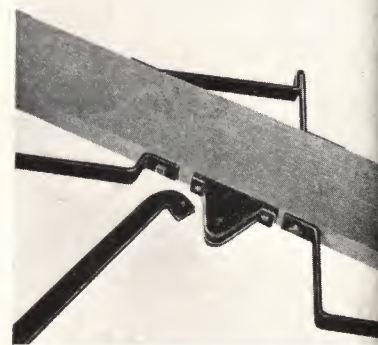
No.	Tiers	Height	Depth
995-3	3	2'-3"	4'-7"
995-4	4	3'-0"	6'-5"
995-5	5	3'-8"	8'-3"
995-6	6	4'-4"	10'-1"
995-7	7	5'-0"	11'-11"
995-8	8	5'-8"	13'-9"

Stringers are set 5' on centers and the boarding overhangs the stringer at each end by 6". Therefore, sections are made in multiples of 5' in length, plus 1 ft. In figuring the capacity of the bleachers, allow 18" of seat for each person.



A five tier, 25 foot
"Close-Pack" section
erected.

Top of Brace Bar hook-
ed into Bracket on
under side of Stringer.



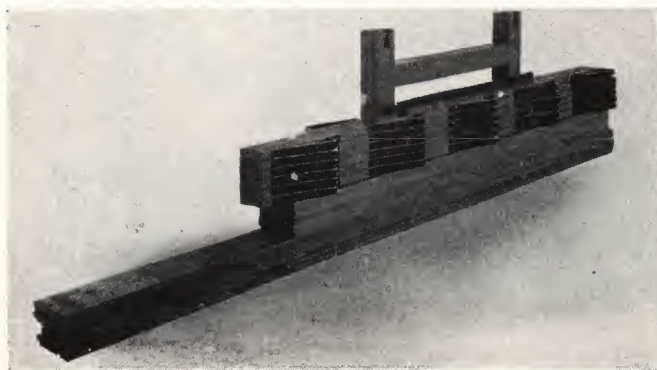
Bottom of Brace Bar
locked by Safety Bolt.



Stringer fits snugly into
notched backstand.
(Shown at right).



A five tier, 25 foot
section packed for
storage. 16' long;
20" wide; 43" high.
(Shown at left)





NARRAGANSETT COUNTER-BALANCED FOLDING BLEACHERS

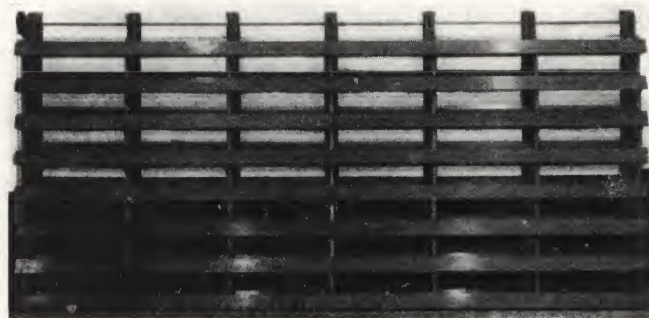
If you know how to raise and lower an ordinary window or awning you can shift our "Counter-Balanced" bleachers from storage position to position for use in a few seconds' time.

It is as simple as that, yet the bleachers are as safe and sturdy and durable as bleachers can be made.

The "one man tops" on old-time automobiles used to take three men and a boy to wrestle with them, but this is actually a one-man bleacher equipment. One attendant can easily have seating for several hundred people in position and out of the way again in less than five minutes.

A simple, easy acting chain-pull device makes that possible.

Folded Close to Wall

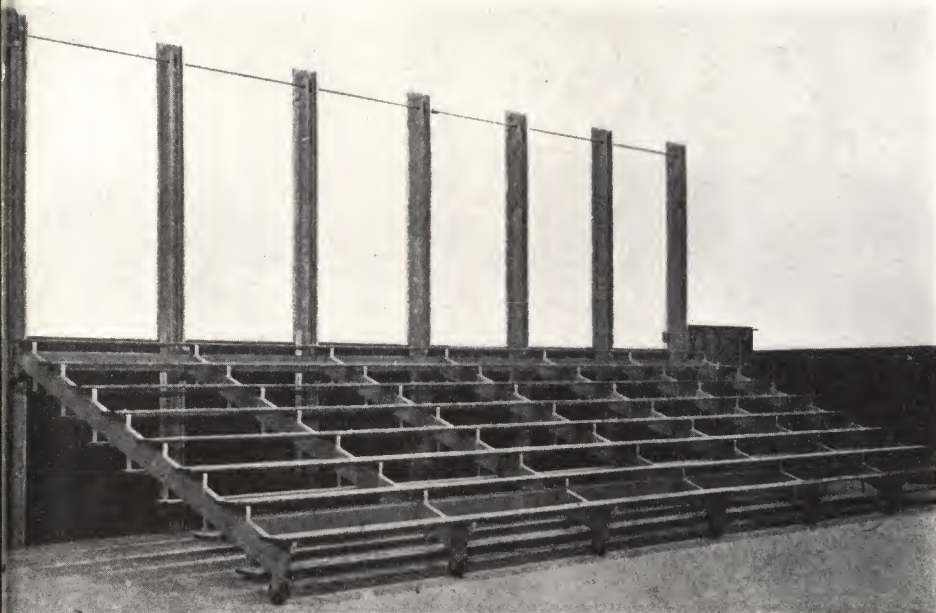


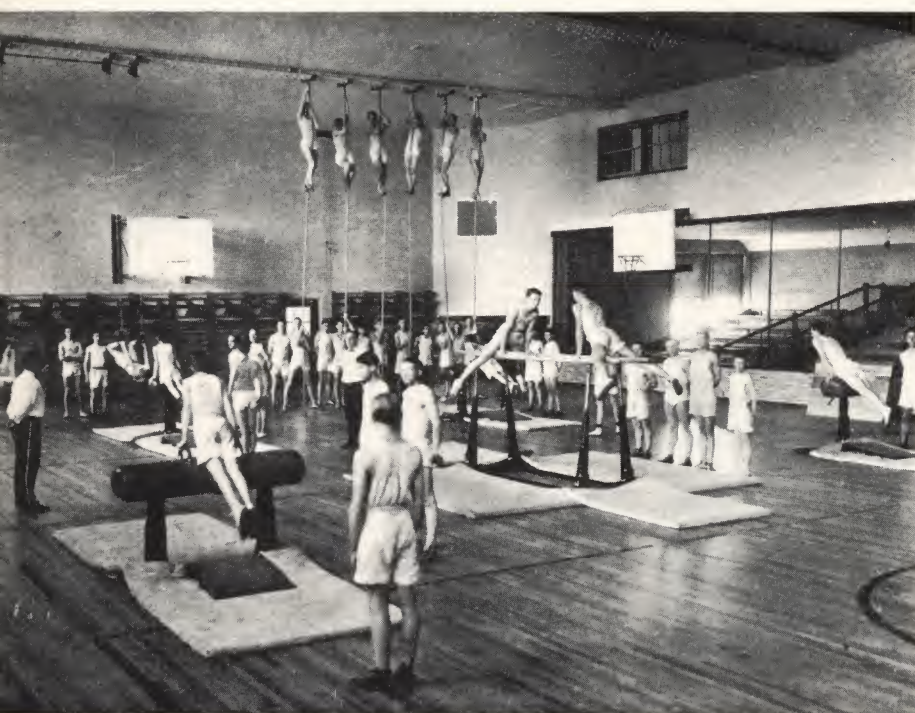
No. 993 Counter-Balanced Folding Bleachers

THE bleachers run up close against the wall and when in storage position protrude approximately 21" from the wall itself, leaving an absolutely clear main floor when desired.

Sections of "Counter-balanced" bleachers at strategic points around the walls, with "Close-Pack" bleachers stored near by for use when capacity crowds are expected, make the ideal equipment where the entire wall space cannot be devoted to "Counter-balanced", or where, on occasion, only part of the floor space is to be in use for game or exhibition and it is desirable to erect a line of "Close-Pack" bleachers across the floor.

"Counter-balanced" bleachers are made in five to eight tier sections, 5' between centers of stringer pieces. The seat and floor boards are securely bolted to the stringer. Materials, finish and workmanship of the very highest grade. Safety, Comfort, Convenience, Durability and Fine Appearance are the big features of this type of seating equipment.





GENERAL GYMNASIUM EQUIPMENT

THE Narragansett Gymnasium Equipment Co. has furnished high grade gymnasium apparatus to Colleges, Schools and other institutions throughout the world, for more than half a century. If you are planning a new gymnasium or contemplate modernizing present equipment, you will undoubtedly want to study the complete catalogue of Narragansett apparatus and steel locker equipment. This will be gladly and promptly sent to you on request.

NARRAGANSETT HYDRAULIC ROWING MACHINES

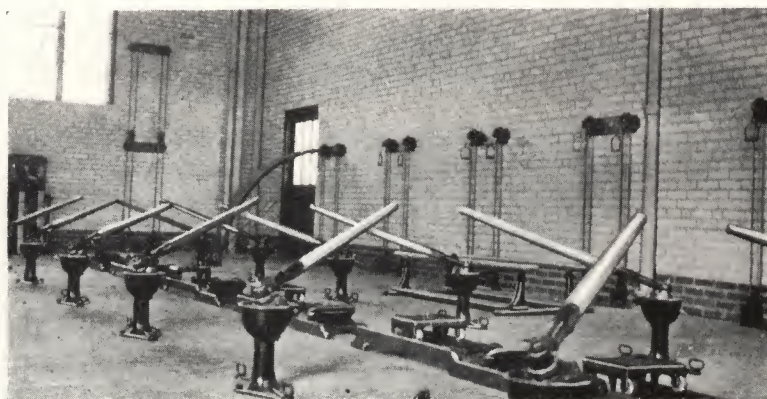
(Single Scull and Eight-oar Equipment)

NARRAGANSETT Rowing Machines have played their part in training crews at Cornell, Harvard, Yale, Princeton, Columbia, Syracuse, Annapolis and other institutions in the collegiate group, as well as the crews of famous rowing clubs.

Secondary schools known for their rowing prowess have benefited by their possession of Narragansett equipment. Coaches, crew-men and individual wielders of the

long ash blades agree that in the Narragansett machine the valve-controlled liquid resistance to the stroke offers the closest artificial approximation of actual rowing conditions yet obtained.

The Individual Narragansett Rowing Machine (2 oars) has been pronounced, by physical education experts, one of the most effective mediums for general exercise, corrective and conditioning work.



ROWING MACHINES

No. 335 Hydraulic Rowing Machine,
one oar with sliding seat.

No. 334 Hydraulic Rowing Machine,
one oar, no seat.

No. 336 Hydraulic Rowing Machine,
two oars, with one seat.

NARRAGANSETT GYMNASIUM EQUIPMENT CO.

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